

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE TEMPORARY INSTALLATION OF THE TRAFFIC CONTROL EQUIPMENT AT THE INTERSECTION OF MD 450 AT MARTHA'S CHOICE CIR. MD 450 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

INTERSECTION OPERATION

NORMAL OPERATION
THE INTERSECTION WILL OPERATE IN A NEMA-THREE-PHASE, FULLY ACTUATED MODE. THE MOVEMENTS ON MD 450 WILL OPERATE CONCURRENTLY. THE MOVEMENTS ON MARTHA'S CHOICE CIR WILL OPERATE CONCURRENTLY.

CONTROLLER REQUIEMENTS

INSTALL A FULL TRAFFIC ACTUATED, SOLID STATE EIGHT PHASE CONTROLLER WITH SYSTEM PACKAGE, TELEMETRY MODULE, ISOLATION BOARD AND SPECIAL RELAY HOUSED IN A NEMA SIZE *6* POLE MOUNTED CABINET.

SPECIAL NOTE

ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
971016	816	1 EA.	EIGHT PHASE, FULL TRAFFIC ACTUATED SOLID STATE DIGITAL CONTROLLER WITH SYSTEM PACKAGE, HOUSED IN A NEMA SIZE *6* POLE MOUNTED CABINET
973023	813	11 S.F.	SHEET ALUMINUM SIGN TO CONSIST OF: -1 EA. R10-12 (36 IN. X 42 IN.)-SPAN MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
203030	205	1 C.Y.	TEST PIT EXCAVATION
585624	556	70 L.F.	24 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING
801004	801	10 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
801605	805	50 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805140	805	40 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
810010	810	45 L.F.	ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 AWG)
813015	813	11 S.F.	INSTALL OVERHEAD SIGN
833062	805	15 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-RISER
837001	804	1 EA.	GROUND ROD 3/4 IN. X 10 FT. LENGTH
860272	814	20 EA.	12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	810	110 L.F.	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
861108	810	250 L.F.	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
869101	819	180 L.F.	1/4 IN. STEEL TETHER WIRE
869102	819	180 L.F.	3/8 IN. STEEL SPAN WIRE
870166	805	15 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
871201	816	1 EA.	INSTALL CONTROLLER AND CABINET-POLE MOUNT
800000	818	2 EA.	40 FT. CLASS II WOOD STRAIN POLE WITH TWO BACK GUYS

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

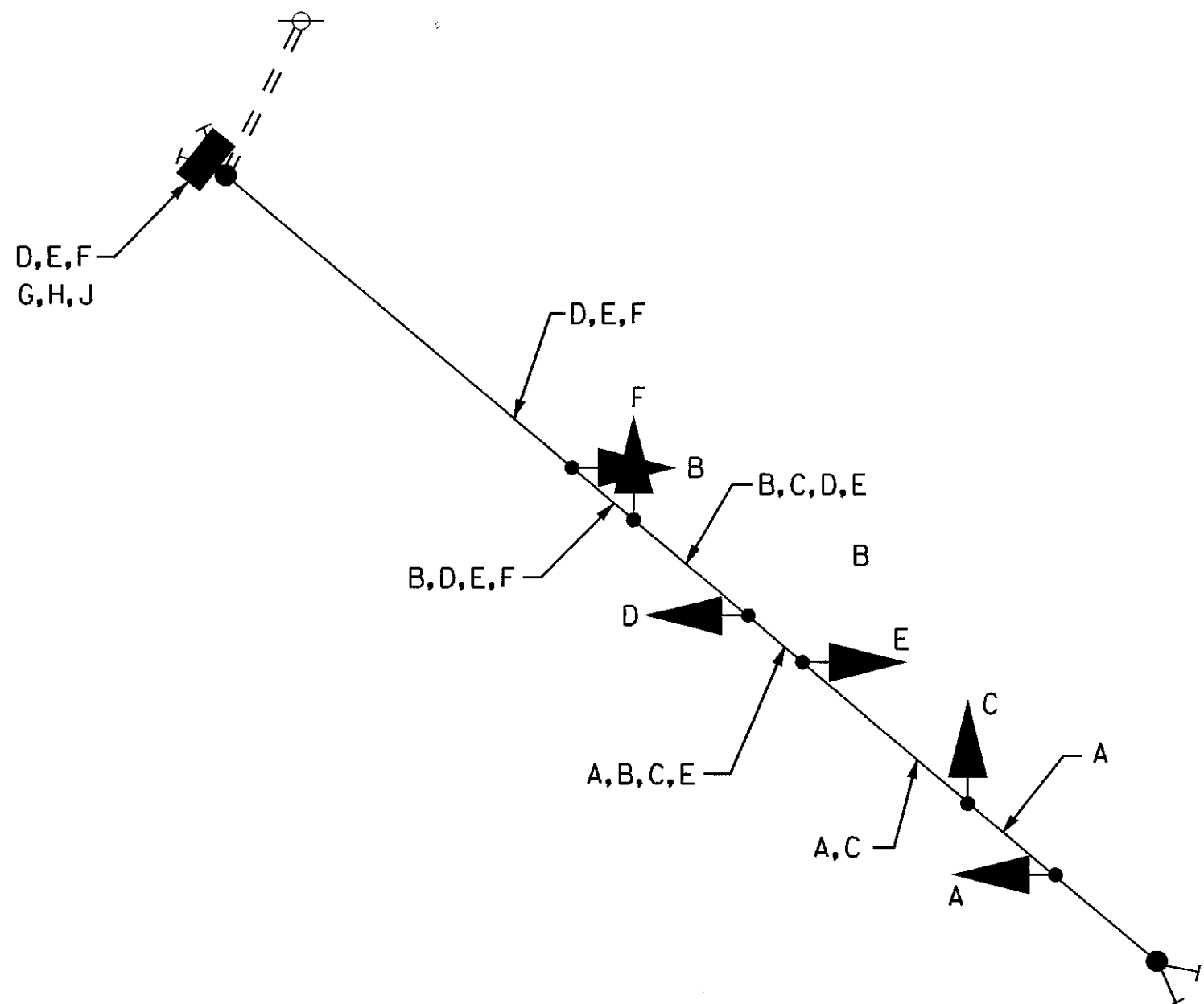
ROBERT SNYDER ASSISTANT DIVISION CHIEF
TRAFFIC OPERATION DIVISION
PHONE: 410-787-7630

MAJID SHAKIB
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: 301-513-7358

RALEIGH MEDLEY
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 301-513-7304

AUGIE REBISH
ASSISTANT DISTRICT ENGINEER-UTILITIES
PHONE: 301-513-7350

WIRING DIAGRAM



- A,B,C ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
D,E,F ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
G,H,J ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 AWG)

PHASE CHART

	1	2	3	4	5	6	
PHASE 1+6		G	G	G	R	R	
1+6 CHANGE		Y	Y	Y	R	R	
PHASE 2+6		G	G	G	R	R	
2+6 CHANGE		Y	Y	Y	R	R	
PHASE 3		R	R	R	G	G	
3 CHANGE		R	R	R	Y	Y	
FLASHING OPERATION		FL	FL	FL	FL	FL	

EQUIPMENT LIST "C"

NONE

REDLINE NO. __/__/2003 NEW SHEET

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET
MD 450 - MD 193 TO STONYBROOK DRIVE
MD 450 AT MARTHA'S CHOICE CIR - TEMPORARY SIGNAL

DRAWN BY: MB	F.A.P. NO.	SEE TITLE SHEET	TS NO.	SHEET NO. 408B OF 545
CHECKED BY: PDU	S.H.A. NO.	PG9005571		
SCALE: NONE	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO.		
DATE: JULY 2003	LOG MILE:	D 538		

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND